

STIC Search Report Biotech-Chem Library

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TO: Shailendra Kumar Location: 5d61 / 5c18 Sunday, July 25, 2004

Art Unit: 1621 Phone: 272-0640

Serial Number: 10 / 624144

From: Jan Delaval

Location: Biotech-Chem Library

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Phone: 272-2504

jan.delaval@uspto.gov

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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Phone Nu Mail Box and Bldg/Room Location:		Examiner # : 69594 I Serial Number: 19 ts Format Preferred (circle):	West & 629199					
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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract. Title of Invention: Title of Invention: Title of Invention: Title of Invention: Title of Invention:								
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Earliest Priority Filing Date: 126 2 10 2 5 that Megaes left *For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the								
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STRUCTURE FILE UPDATES: 23 JUL 2004 HIGHEST RN 715654-51-6 DICTIONARY FILE UPDATES: 23 JUL 2004 HIGHEST RN 715654-51-6

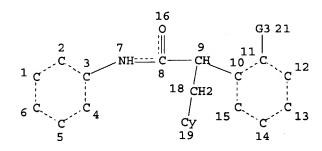
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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VAR G3=OH/NH2 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE
L7 5 SEA FILE=REGISTRY SSS FUL L5

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L7 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 653603-99-7 REGISTRY

CN 3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H26 F3 N5 O3

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

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PAGE 2-A

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:146146

L7 ANSWER 2 OF 5' REGISTRY COPYRIGHT 2004 ACS on STN

RN 653603-98-6 REGISTRY

CN Benzenepropanamide, α-[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H27 F3 N4 O3

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:146146

- L7 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 653603-96-4 REGISTRY
- CN Benzenepropanamide, α-[5-(aminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C28 H28 F3 N3 O3
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:146146

L7 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN

RN 653603-94-2 REGISTRY

CN 3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

MF C27 H26 F3 N5 O3 . 2 C1 H

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

CRN (653603-99-7)

PAGE 2-A



●2 HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:146146

- L7 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 653603-90-8 REGISTRY
- CN Benzenepropanamide, α-[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI)
 (CA INDEX NAME)
- MF C28 H27 F3 N4 O3 . C1 H
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
- CRN (653603-98-6)

PAGE 2-A

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HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:146146

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            526 S E3, E62-E74
L11
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            191 S E3, E48-E57
L12
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L13
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                E GAO Y/AU
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            232 S E3, E6
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L18
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L19
              1 S L7
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L19
    ANSWER 1 OF 1 USPATFULL on STN
AN
       2004:101859 USPATFULL
       New carboxylic acid amides, the preparation thereof and their use as
TI
       pharmaceutical compositions
       Ries, Uwe, Biberach, GERMANY, FEDERAL REPUBLIC OF
IN
       Priepke, Henning, Warthausen, GERMANY, FEDERAL REPUBLIC OF
       Wienen, Wolfgang, Bieberach/Rissegg, GERMANY, FEDERAL REPUBLIC OF
       Nar, Herbert, Ochsenhausen, GERMANY, FEDERAL REPUBLIC OF
       Handschuh, Sandra, Biberach, GERMANY, FEDERAL REPUBLIC OF
PA
       Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, GERMANY, FEDERAL
       REPUBLIC OF, 55216 (non-U.S. corporation)
                         A1
       US 2004077729
PΙ
                               20040422
       US 2003-624144
                          A1
                               20030721 (10)
AΙ
      DE 2002-10234057
                          20020726
PRAI
       US 2002-404430P
                           20020819 (60)
      Utility
DT
FS
      APPLICATION
LREP
      BOEHRINGER INGELHEIM CORPORATION, 900 RIDGEBURY ROAD, P. O. BOX 368,
      RIDGEFIELD, CT, 06877
      Number of Claims: 6
CLMN
ECL
      Exemplary Claim: 1
DRWN
      No Drawings
LN.CNT 987
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

AB Carboxylic acid amides of general formula ##STR1##

possessing antithrombotic activity and a factor Xa-inhibiting activity. Exemplary are:

- (a) 2-(5-amidino-2-hydroxy-phenyl)-N-[3-trifluoromethyl-4-(pyrrolidin-1-yl-carbonyl)phenyl]-3-phenyl-propionamide,
- (b) 2-(5-amidino-2-hydroxy-phenyl)-N-[3-trifluoromethyl-4-(pyrrolidin-1-yl-carbonyl)-phenyl]-3-(pyridin-3-yl)-propionamide, and
- (c) 2-(5-aminomethyl-2-hydroxy-phenyl)-N-[3-trifluoromethyl-4-(pyrrolidin-1-yl-carbonyl)-phenyl]-3-phenyl-propionamide,

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 653603-90-8P 653603-94-2P 653603-96-4P

653603-98-6P 653603-99-7P

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor
Xa inhibitors)

RN 653603-90-8 USPATFULL

CN Benzenepropanamide, α-[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

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HCl

RN 653603-94-2 USPATFULL

CN 3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

•2 HCl

RN 653603-98-6 USPATFULL CN Benzenepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN 653603-99-7 USPATFULL

CN

3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

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PAGE 2-A

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GW, ML, MR, NE, SN, TD, TG
US 2004077729 A1 20040422 US 2003-624144 20030721
PRAI DE 2002-10234057 A 20020726
US 2002-404430P P 20020819
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NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

OS MARPAT 140:146146

GΙ

Title compound [I; R1 = (substituted) (NH-interrupted) C3-7 cycloalkylcarbonyl, phenylcarbonyl, naphthylcarbonyl, heteroarylcarbonyl, etc.; R2 = F, C1, Br, (fluorinated) alkenyl, alkoxy, alkyl; R3 = OH, amino; R4 = (substituted) Ph, heteroaryl, etc.; R5 = CH2NHR6, C(:NH)NH2, etc; R6 = H, alkoxycarbonyl, etc.], were prepared Thus, 2-(5-amidino-2-benzyloxyphenyl)-N-[3-trifluoromethyl-4-(pyrrolidin-1-ylcarbonyl)phenyl]-3-(pyridin-3-yl)propionamide dihydrochloride in MeOH was hydrogenated with H2 in the presence of Pd/activated C to give 66% 2-(5-amidino-hydroxyphenyl)-N-[3-trifluoromethyl-4-(pyrrolidin-1-ylcarbonyl)phenyl]-3-(pyridin-3-yl)propionamide dihydrochloride. The latter inhibited factor Xa with IC50 = 0.007 μM.

ST phenylpyrrolidinylcarbonylphenylpropanamide prepn factor Xa inhibitor; propanamide pyrrolidinylcarbonylphenyl phenyl prepn anticoagulant

IT Anticoagulants

Human

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor
Xa inhibitors)

IT Thrombosis

(treatment; preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamide
s as factor Xa inhibitors)

IT 9002-05-5, Factor Xa

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamid es as factor Xa inhibitors)

IT 653603-90-8P 653603-94-2P 653603-96-4P 653603-98-6P 653603-99-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor
Xa inhibitors)

IT 100-39-0, Benzyl bromide 121-01-7, 2-Amino-5-nitrobenzotrifluoride 123-75-1, Pyrrolidine, reactions 446305-72-2 653603-95-3 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor
Xa inhibitors)

IT 320-37-6P 320-47-8P 446305-77-7P 446305-78-8P 651045-13-5P, 2-(2-Benzyloxy-5-cyanophenyl)-3-phenylpropionic acid methyl ester 651045-14-6P 653603-91-9P 653603-92-0P 653603-93-1P 653603-97-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor
Xa inhibitors)

IT 653603-90-8P 653603-94-2P 653603-96-4P 653603-98-6P 653603-99-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (phenyl)[(pyrrolidinylcarbonyl)phenyl]propanamides as factor Xa inhibitors)

RN 653603-90-8 HCAPLUS

CN

Benzenepropanamide, α-[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



● HCl

RN 653603-94-2 HCAPLUS

CN 3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 2-A

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●2 HCl

RN 653603-96-4 HCAPLUS CN Benzenepropanamide, o

Benzenepropanamide, α -[5-(aminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 653603-98-6 HCAPLUS CN Benzenepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

RN

653603-99-7 HCAPLUS 3-Pyridinepropanamide, α -[5-(aminoiminomethyl)-2-hydroxyphenyl]-N-[4-(1-pyrrolidinylcarbonyl)-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME) CN

PAGE 1-A

PAGE 2-A